# Improving Rhode Island's Public Schoolhouses



# NECESSITY OF SCHOOL CONSTRUCTION INFORMATION AND INSTRUCTIONS

School Building Authority
Rhode Island Department of Education

## **FY 2018**

The State of Rhode Island is committed to providing high quality educational opportunities for all public school students. School facilities provide more than a place for instruction. The physical learning environment contributes to the successful performance of educational programs. (RIGL 16-105-1)

# **TABLE OF CONTENTS**

INTRODUCTION	3
NECESSITY OF SCHOOL CONSTRUCTION OVERVIEW	4
STAGE I	7
STAGE II	15
APPENDICES  Appendix A – Project Priorities  Appendix B – Initial Compliance Certification  Appendix C – School Building Committee Letter Template  Appendix D – School Siting Considerations  Appendix E – Sample School Capacity Calculations Guidelines	24

#### **INTRODUCTION**

In June 2015, the Rhode Island General Assembly created the School Building Authority (SBA) within the Rhode Island Department of Education. The establishment of the SBA heralded a several important changes in state support for school facilities. This guidance outlines the new process for submitting a Letter of Intent and Stage I application.

The Council on Elementary and Secondary Education (CESE) has the responsibility for determining the need for all school housing projects. This review of school housing projects serves two purposes: (1) qualification of the project for reimbursement under the state aid for Housing Program or School Building Authority Capital Fund; and (2) certifying to the General Assembly that the project is needed should the district require enabling legislation for a bond.

One of the most important changes resulting from the new legislation converts a previously rolling application process into an annual process. Beginning in 2015, the Council on Elementary and Secondary Education (CESE) will begin approving new necessity of school construction applications on an annual basis. The School Building Authority reviews and preliminarily approves a multi-stage application prior to presentation to the SBA Advisory Board (Advisory Board). Upon recommendation by the SBA Advisory Board, the SBA makes their recommendations to the CESE who have the final authority to approve or deny each application.

An additional important change is that the process of qualifying for housing aid is now competitive, as the CESE approves funding based on need and urgency. This guidance describes the criteria for funding in detail and helps ensure a fair and level playing field for all applicants.

We welcome all questions, which can be directed to the School Building Authority Staff.

## **School Building Authority Staff:**

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#### NECESSITY OF SCHOOL CONSTRUCTION OVERVIEW

The School Building Authority has two distinct programs to assist LEAs as they fulfill their obligation to provide safe, healthy, and educationally appropriate school facilities for its students:

- 1. Fast Track Repair Program
- 2. Major Projects Program
- The multi-stage application process will follow the timeline and milestones below. Because this is an
  annual process, any LEA that misses the outlined milestones or otherwise cannot keep to the timeline
  outlines may be delayed to the next fiscal year. The Council will only consider projects once a year by
  June for both Programs. Major Projects typically take two years to prepare, submit, and advance to
  the Council.

# Fast Track Repair Program & Major Projects Seeking FY18 CESE Approval

# Step 1 – Letter of Intent (LOI)

- LEA LOI due August 31st
- SBA invitation to submit Stage I

# Step 2 - STAGE I \*

- Due on or before October 16<sup>th</sup>
- SBA authorization to proceed to Stage II
- Meeting with School Building Committee

# Step 3 - STAGE II

- Due on or before February 1<sup>st</sup>
- SBA issues preliminary approval
- SBA Advisory Board makes a recommendation

## Step 4 – Council Approval

 Commissioner recommends project to Council of Elementary and Secondary Education for approval by June 2018

# Step 5 – STAGE III

• RIDE design reviews at SD, DD, and CD

# Major Projects Program Seeking FY19 CESE Approval

# Step 1 – Letter of Intent (LOI)

- LEA LOI due October 16<sup>th</sup>
- SBA invitation to submit Stage I
- Meeting with School Building Committee

#### Step 2 – STAGE I

- Submittal schedule agreed upon between SBA and LEA
- SBA authorization to proceed to Stage II
- Meeting with School Building Committee

#### Step 3 - STAGE II

- Submittal schedule agreed upon between SBA and LEA
- SBA issues preliminary approval
- SBA Advisory makes recommendation

# Step 4 – Council Approval

 Commissioner recommends project to Council of Elementary and Secondary Education for approval

# Step 5 - STAGE III

• RIDE design reviews at SD, DD, and CD

- Please note that because applications are no longer accepted on a rolling basis, it is critical that the above listed deadlines are met. Failure to meet the deadlines at any of the stages may result in projects not being approved that year.
- Additional information can be attached to the application as deemed necessary.

<sup>\*</sup> LEAs that are applying to the Fast Track Repair Program can use assessment data – from the Statewide Facilities Assessment currently being conducted for Stage I.

- The necessity of school construction process applies to **all** renovation projects, new additions, or new facilities seeking state aid. RIDE 1.00 applies to all new school construction and school renovations projects where the total cost exceeds \$500,000.
- **STAGE I & STAGE II SUBMISSION INFORMATION** please submit **an original and an electronic copy** of the application packages to:

Joseph da Silva, Ph.D., NCARB, REFP School Construction Coordinator / Architectural Design Reviewer School Building Authority Office of Statewide Efficiencies Rhode Island Department of Education 255 Westminster Street Providence, RI 02903

Phone - (401) 222-4294 Fax - (401) 222-2823

E-mail: joseph.dasilva@ride.ri.gov

			RIDE and STATE APPROVALS and SIGN OFFS	RIDE and STATE APPR
		With from SBA ommissioner dation to CESE	CESE Approval - With recommendation from SBA Advisory Board, Commissioner makes recommendation to CESE	
HOUSING AID REIMBURSEMENT – Projects funded by bonds or local capital reserves receive State reimbursement upon project completion			SBA Stage II Preliminary Approval – Considered by SBA Advisory Board	Authorization to move forward with Stage II
			State Agency Reviews  – DOA Planning;  RIHPHC; Commission on Disabilities	SBA Stage I Preliminary Approval -
DESIGN CONSTRUCTION COMPLETION	MOA	Council Approval	STAGE II DEVELOP SOLUTION	STAGE I IDENTIFY NEED
nesign dim construction.			Local Support – Stage Il must include School Committee and City Council Approvals	School Building Committee – Composed of City and School representatives
SBA CAPITAL FUND - Projects funded by School Building Authority Capital Fund receive progress payments during	of Agreement – Committee and	Memorandum of Agreement – Signed by School Committee and Superintendent	rintendent, School al Representative	Letter of Intent/Statement of Interest — Stage I — Signed by Superintendent, School Committee, and Municipal Representative (Mayor/City Council)
			nd SIGN OFFS	LOCAL APPROVALS and SIGN OFFS
FUNDING OPTIONS	ESS	TION PROC	NECESSITY OF SCHOOL CONSTRUCTION PROCESS	NECESSITY OF SC

# **NECESSITY OF SCHOOL CONSTRUCTION STAGE I**INFORMATION AND INSTRUCTIONS

## **STAGE I APPLICATION**

Stage I Deadline for Fast Track Repairs: October 16, 2017

Stage I Deadline for Major Projects: To be set through collaboration between the SBA and LEA

The intent of Stage 1 is to define and verify the district's facilities need. The Stage 1 checklist and explanatory detail is provided below.

# **STAGE I - CHECKLIST**

1. \_ <u>Statement of Interest & Project Justification</u> (see SOI checklist below)

Required Information:
Name of Local Education Agency (LEA)
Executive Summary of Stage I application describing LEA facility conditions, recent capital improvements, status of existing approvals, issues to be addressed, and overview of Facility Master Plan.
The LEA must indicate whether the building will be a renovation of a current building, a major renovation, an addition, or construction of a new building.
Project Priorities - District must demonstrate perceived priority need in accordance with statute and identified school deficiencies are to be outlined along with demonstration of applicable category (see Appendix A for statutory language and FY17 Prioritization Methodology). Project priorities must be reconciled with the prioritization of projects conducted by Jacobs for the statewide assessment
Project Schedule
If the district is applying for High Performance Green School Status and the additional 2-4% reimbursement for energy efficiency pursuant to Section 1-12.2, this must be stated in the Necessity of Construction Application.
Statement of Interest must be signed by the Superintendent of Schools, School Committee Chair, and Municipal Representative
Initial Compliance Certification Form signed by the School Business Official, the Superintendent of School, and the Chair of the School Committee (see Appendix B). This is a prerequisite for review – applications that do not provide this form may not be reviewed.
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## Additional Information Required for Major Projects Program applications:

\_\_ For Major Projects Program, provide description of educational facility planning process to be undertaken – including development of educational facility program specifications, an analysis of school facility capacities per current use, and financing mechanism anticipated. If applicable, also provide projected capacity when delivering the LEAs educational program if it differs from the capacity per current use. Capacities must be reconciled with those provided by Jacobs in statewide assessment.

\_\_ For Major Projects Program, provide proposed detailed schedule for educational facility planning process, including major milestones such as local approvals and submissions to RIDE (Stage I, Stage II, and any other anticipated submissions). This will become the basis for the district's Major Projects submittal schedule.

- 2. \_\_ District map with highlighted educational facilities
  Include LEA Administrative Offices, school facilities, and physical education/ athletic fields.
- 3. \_\_ School Building Committee Members list and backgrounds (*Use letter template Appendix C*)

  Confirm School Building Committee membership and provide signed letter and table provided in Appendix C. The Committee can include additional members as necessary to comply with local or charter requirements; however the School Building Committee must include all members as outlined in the School Construction Regulations. *This is a prerequisite for review applications that do not provide this form may not be reviewed.*

# 4. \_\_ District Asset Protection Plan

\_\_ District asset protection plans for three (3) years prior to application documenting spending on preventative maintenance, renovation, and adaptation. Any buildings to be modernized or renovated must include notes explaining actions taken by the district to ensure protection of physical assets.

The asset protection information submitted annually on e-RIDE can be used, however, it only partially satisfies the requirement. The complete asset protection plan must include a full analysis of the buildings current conditions, the need for repairs if any, the costs associated with the repairs, and the nature and cost of annual maintenance for each building. The asset protection plan and annual expenditures pursuant thereto must meet the following minimum requirements:

- a. All facilities and structures shall be maintained in a safe, sound, and energy efficient condition. All service equipment, means of egress, devices, and safeguards which are required by the state building code in a building or structure, when erected, altered, or repaired, shall be maintained in good working order;
- b. For each facility, the plan shall itemize anticipated annual expenditures for required maintenance;
- c. Capital maintenance expenditures shall be itemized and be consistent with the district's approved capital improvement plan; and
- d. The plan shall itemize costs for the replacement of all approved temporary facilities in the district with permanent structures.

# \_\_ Certified Educational Facilities Manager credentials

RIDE 1.11-2 establishes minimum requirements for the employee who supervises buildings and grounds for school districts. Provide a resume and evidence of any building maintenance and/or operation certificates.

\_\_ Confirm adoption of Indoor Air Quality Assessment & EPA "Tools for Schools" Provide a copy of the resolution signed by school district requiring participation in an indoor environmental management plan, equivalent to US EPA's Tools For Schools (NECHPS Operations and Metrics Prerequisite 6.0 – Indoor Environmental Management Plan).

\_\_ Confirm the LEA has engaged an Owner's Project Manager or Clerk of the Works will be engaged

# 5. \_\_ Capital Facilities Improvement Plan

# **Fast Track Repairs**

Districts submit five (5) year capital improvement plans so that an approval is only necessary once every five years. These plans should include projects that are capital improvements to the existing facility and not related to maintenance and operations. The plan must include high priority deficiencies and the prioritization must be reconciled with the statewide assessment data provided by Jacobs. Capital Improvements Plans that are focused on high priority projects must also allocate at least 10% of construction costs to appurtenances that improve school environments.

Equipment purchases are not reimbursable as capital improvements. For example, computer purchases are not approvable capital items; however, the wiring and infrastructure changes necessary to upgrade the technology would be acceptable.

# **Major Projects**

Provide a vision statement; define focus elements, expectations, aspirations and needs which influenced the recommendations for the improvement plan. List and describe each recommended project and plan execution order/priority. The plan should include school level, phase, location, grades housed, year built, total gross square footage site size, condition of school building, present enrollment, student capacity, capacity difference, suggested enrollment and square footage, proposed action, and proposed cost. The timeline for the improvement plan should outline capital costs plan per year with appropriate escalation factors. Consideration must be given for swing spaces and ability to finance.

Districts are required to have an approved current capital improvement plan on file at RIDE. Only projects included in the capital improvement plan will be eligible for approval. Capital Improvement Plan is a long-range plan, typically five years, which identifies capital needs in a district and provides a funding schedule and timeline for implementation. The capital improvement plan allows for systematic evaluation of all projects at one time so that a district can anticipate future needs. The capital improvement plan should not include routine maintenance expenses of the district but should include required upkeep of the facilities, including but not limited to, roof repairs, heating and ventilation system repairs, or window and door replacement.

# 6. \_\_\_ Facilities Analysis (Comprehensive Facilities Assessment)

LEAs can use the facility condition data compiled by Jacobs Engineering as part of the Statewide Facilities Assessment to satisfy this requirement. Please note that the LEA must review and reconcile the Assessment data, including deficiencies, costs, FCI, and any other pertinent information. Once submitted to the SBA, the assessment will represent the LEA's understanding of facility conditions at its facilities and as such will become the basis of the

Necessity application. Please note that the conditions data does not satisfy the requirement for Schematic Design required for Stage II.

A facility analysis must be submitted. The Facility Analysis should list any deficiencies in the
district's existing buildings and include indoor environmental quality and cosmetic
improvements. The Facility Analysis must be conducted by a licensed engineer and must include
Inspection and analysis of the building envelope (roof, walls, glazing, foundation, floor/slab)
Inspection and analysis of the structural elements of the facility
Inspection and analysis of all mechanical systems, including condition, age, energy efficiency,
levels of ventilation, and compliance with American Society of Heating, Refrigerating, and Air
Conditioning Engineers (ASHRAE) standards
Inspection and analysis of the lighting system, including condition, age, energy efficiency and
lighting levels
Inspection and analysis of all controls including lighting controls and sensors, energy
management systems, emergency shutoffs
Inspection and analysis of all fire, safety and security systems including emergency plans
Analysis of the energy use (electric and heating and/or cooling) of the facility for at least the
last two years, a survey of the facility systems, and recommendations for improving energy
efficiency. The use of Energy Star Portfolio Manager or ComCheck software systems to
benchmark the facility against other buildings or the Rhode Island Building Energy Code is highly encouraged.
The facility analysis must also include site, plumbing, technology, and code assessments.
Submission must include diagrammatic Floor and Site Plans for each district facility.
Facility analysis must include prioritization of deficiencies that is aligned to and/or reconciled
with the statewide assessment prioritization of deficiencies provided by Jacobs.
with the statewide assessment phontization of deficiencies provided by Jacobs.
trict & Community Demographics
Provide comprehensive enrollment information, including but not limited to individual school
capacities with current and projected enrollments. This study should analyze and take into
account a wide range of variables such as population size, migration, births, deaths, age

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composition and distribution, school populations by race, housing property values, real estate transaction trends, and projections for charter public schools as well as non-public schools. The submitted projections should include a minimum of five years out, but ten (10) years are preferred. All demographic projections should be compared and reconciled with the demographic study included in the statewide assessment.

District	Wide Existing	<sub>ን</sub> ጼ P	rojected	Fnroll	ments	hv Sch	റവ
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\_\_ Community Data - projected populations and statistics; housing development statistics and analysis; immigration. In order to obtain a comprehensive understanding of district and community demographics, the analysis should also include: geographic statistics and analysis, ethnic/racial data, and private and charter school migrations.

# **Major Projects**

For Major Projects, LEAs must specify the target population using the 5 year projection.

# 8. Cross Districting Due Diligence

	Provide an analysis of potential economic and non-economic impact of leveraging cross-districting, which shall demonstrate that the district has considered district boundaries, other existing facilities, and population trends in determining the need and site of proposed projects.  Neighboring District Demographics (District wide by School)  Existing & Projected Enrollments  Minutes of Meeting/Correspondence with Neighboring Districts  Analysis of Potential Economic and Non-economic Impact  Individual School Student Capacities
9. <u> </u>	ucational Program Due Diligence
	Existing School Capacities and Grade Configurations  LEA's must reconcile school capacities with the three capacities provided in the Statewide  Assessment.
	Approved Educational Program certified by School Committee Educational Program Needs Assessment
10. Pla	nning Activities
_	The intent of this section is to summarize project planning activities. This section will provide a description of the procurement process for any consultants assisting the district, an identification of the consultant team, and describe the planning meetings.
	In addition, this section will describe the alternatives explored, historical implications of existing facilities, and the energy efficient and smart growth concepts considered. Failure to perform adequate research while planning may result in development of incomplete educational specifications, pursuit of a school construction project which does not address all of your needs, costly change orders during the course of construction, or insufficient local support for the project and defeat at referendum. Refer to the <i>Recommended Action Plan</i> prepared by Jacobs for planning recommendations.
	Describe the project planning activities, including any activity by existing committees, as well as options the planning team developed.
	For Major Projects Program: For projects considering a new site or an addition to an existing building, please describe assessment of the proposed site per the School Construction Regulations, the Northeast Collaborative for High Performance Schools protocol, and all applicable local and state statutes and regulations, including the Industrial Property Remediation and Reuse Act. (See Appendix D for excerpts of school siting regulations and guidance)
	For Major Projects Program: Describe whether the district considered smart growth concepts with relation to educational facilities and the impact of suburban sprawl in developing and planning for new construction. If possible, projects should encourage revitalization of existing facilities and consideration should be given to locating facilities in areas that are already served by existing or planned water, sewer, and other public infrastructure.
	Statewide and Local Planning Considerations

Describe whether the planning committee considered statewide and local planning implications of existing facilities, including the local comprehensive plan. Provide a description of any coordination with local officials regarding site selection, possible consolidation, proximity to community resources, transportation impact, storm water pollution prevention and site layout. If the project involves renovating or demolishing a building, please advise the Rhode Island Office of Strategic Planning and Evaluation.

## Contact Information:

Office of Strategic Planning and Evaluation RI Department of Administration One Capitol Hill, 3rd Floor Providence, RI 02908

12. \_\_ Approval of Funding for Architectural Feasibility Study

Submit an agreement to fund an Architectural Feasibility Study signed by the school district authority or municipal authority. Include a proposed scope of work for the Feasibility Study. *This is a prerequisite for review – applications that do not provide this form may not be reviewed.* 

# 11. \_\_ Operating Budget Analysis

Provide a preliminary overview of available or projected local funding. Submit analysis of the impact on the operating budget of the proposed project(s). Include savings and/or cost of additional maintenance, instructional and/or support staff, additional utility costs, transportation and potential additional revenue.

# 13. \_\_ Utility Incentives -

Districts are required to participate in energy efficiency and technical assistance programs that are available through applicable utility and government programs. In order to maximize the incentive, LEAs must work with the utility company from early in the planning process.

For renovations in existing buildings provide evidence of correspondence with Jerry Drummond (jerry.drummond@nationalgrid.com) at National Grid.

For new construction, provide evidence of correspondence with Kathy Arthur (<u>Kathleen.Arthur@nationalgrid.com</u>) at National Grid.

14. \_\_ Document how all preliminary planning consultants' contract procurement satisfies applicable laws
Assurance that all contracts and subcontracts are in conformity with all applicable provisions of
federal, state, and local law and regulations, including those related to minority hiring. Additional
information is available on the following website <a href="www.mbe.ri.gov">www.mbe.ri.gov</a>.

Provide request for proposal used to solicit quotes from vendors for Architectural/Engineering services, School Committee Meeting Minutes, or provide documentation from City/Town Solicitor that the procurement satisfies all applicable laws.

## **End of STAGE I Checklist**

#### **STAGE I SBA REVIEW**

# **REVIEW OPTIONS:**

**Approval:** The School Building Authority (SBA) approves the Application and schedules and conducts a conference with the School Building Committee and SBA at which questions about the Application may be asked and answered and the school construction regulations and feasibility study requirements are discussed. If a project is approved, a written timeline will be established for how the project will proceed.

**Further information needed:** The School Building Authority (SBA) returns the Application with requests to provide timely answers to questions, clarification of prescribed issues or request supplemental information. This step may also include a Plan Review where the concerns are addressed at the scheduled conference. LEAs proceeding beyond the Stage I application process, without SBA approval, are not in conformance with Necessity for Construction regulations.

**Disapproval:** The School Building Authority (SBA) returns the Application and notes the reasons for disapproval. The district may request a meeting with RIDE to review the Application and the decision.

# **NECESSITY OF SCHOOL CONSTRUCTION STAGE II**INFORMATION AND INSTRUCTIONS

#### **STAGE II APPLICATION**

Stage II Deadline for Fast Track Repairs & Major Projects Seeking FY18 CESE Approval: February 1, 2018 Stage II Deadline for Major Projects Seeking FY19 CESE Approval: To be set through collaboration between SBA and LEA

The intent of this step is to develop and agree on a solution to the verified capital improvement needs at the LEA. LEAs must receive Stage I preliminary approval and submit State II applications by the required date for consideration by the Council.

# **CHECKLIST**

# 1. \_\_ Project Summary and Prioritization

The intent of this section is to summarize and clearly justify why the proposed project is Projects must also be prioritized per the district's perceived needs with justification that clearly aligns any proposed capital improvements with the priorities established by statute (RIGL 16-105.3) and recommended by the SBA Advisory Board. If new construction is proposed, this section should indicate why new construction is required as opposed to renovating existing facilities. This section should reference the current condition of existing facilities and data that supports the need for the project, including enrollment projections, community data, and project cost comparisons. With renovation projects, the application should clearly indicate that the condition of the affected facilities is poor. The application should note whether the renovations are necessary for building code compliance, health and safety concerns, security issues, etc. The application must include the prioritization of proposed school improvements following the format used for the Statewide Assessment. Any deviations from the prioritization provided in the Statewide Assessment must be reconciled in the application. If the application is focused on high priority projects, the district must also allocate at least 10% of construction costs to appurtenances that improve school environments, including indoor environmental quality and cosmetic improvements.

Summarize enrollment projections for the next five years by grade with a brief analysis (increases/decreases from year to year shown in actual numbers or percentages) of how the data supports the need for the project. Local enrollment projections should be supported by those from an outside source. Include summary of community data, e.g. population, housing stats, birth rates, or immigration estimates, and an analysis of how the data supports the need for the project. The enrollment projections must also be compared to and reconciled with those provided by Jacobs in the Statewide Assessment.

Summarize the cost comparison between this project and other alternatives reviewed. If the project involves a new facility, the cost analysis must show clearly and fully that the proposed new construction is the best available alternative to meet the projected need based upon educational programs to be housed, total cost effectiveness, and the public interest. Include a consideration of indirect costs associated with the project, such as new sewers, roads, transportation, or utilities. If there are surplus buildings, include benefits or costs to the public, such as re-sale value or demolition costs. If the project is a renovation of an existing

building, include documentation that the building is structurally sound or can reasonably be made so.

Summarize any other information deemed necessary to support the need for this project. Applicants must include a list of building deficiencies that this project will remediate, such as capacity issues, indoor air quality issues, ability to offer ancillary services, providing appropriate learning environments, etc.

# 2. <u>Architectural Feasibility Study</u>

# \_\_\_ Design and Educational Program

Design and Educational Program means a comprehensive numerical and written description of a district's specific educational program for a specified number of students over a specified period of time. It shall include: an itemization of spaces needed to support the educational program, complete to the degree that a designer may use it as the basic document from which to create the design of a school facility; the instructional programs, grade configuration, type of facility, and the spatial relationships for the functions housed at the facility; the number of students and a list of any specialized classrooms or major support areas, non-instructional support areas, or external activity spaces; gross and net square footage of any affected existing facility; the overall security and security measures taken to safeguard the facility and its occupants; the school administrative organization; and the hours of operation that include the instructional day, extracurricular activities, and any public access. The Design and Educational Program shall begin with a thorough, in-depth explanation of curriculum goals and instructional activities that occur within the learning environment of the facility affected by the proposed project. The Design and Educational Program shall comply with all applicable laws and applicable CESE and SBA regulations, including but not limited to, those governing curriculum, basic education program, and length of school day and year. The Design and Educational Program for the proposed project shall include an itemization of each functional space and determination of square footage allocations, a calculation of total building square footage, and establish a realistic construction budget.

The education specifications section should also address external space. The district should indicate whether there is enough space for parking, bus turn around, recess areas, athletic fields, and any other external item necessary to adequately administer the school.

Include a description as to how grade organization in the district will be affected by the proposed project. For example, a new middle school may consider shifting Grade 6 from the Elementary and/or Grades 7-8 from the High School. Note how the district has planned for changes in grade organization, i.e. consolidation of services to avoid duplication.

For proposals for schools serving more than 400-500 students, districts are encouraged to address the smaller instructional and support services groupings that are necessary to provide personalized learning environments. This may include creating small learning communities of 400-500 students in larger schools; creating advisories, or other opportunities that allow students to be well known by at least one adult; and other strategies that facilitate the care of individual student's social, emotional, academic, and future career needs.

\_\_ Comparison of costs between project and other alternatives. If the project involves new construction, the cost analysis must show clearly and fully that the proposed new construction is the best available alternative to meet the projected need based upon educational programs to be housed, total cost effectiveness (including life cycle cost analysis using twenty years as the lifetime), and the public interest. A consideration of indirect costs associated with the project, such as new sewers, roads, transportation or utilities must be included. If there are surplus buildings, include benefits or costs to the public, such as re-sale value or demolition costs.

\_\_ Certification by Professional Structural Engineer registered in Rhode Island demonstrating that the building is structurally sound or can be made so reasonably.

# \_\_ District's High Performance Green Status/Goals

In addition, to ensure that integrated design, construction, and maintenance approaches are consistent with the goals of High Performance Schools the following policy and operations prerequisites are required.

- i. The school district must create implement an integrated design approach that ensures that the high performance standards and the overall goals of Northeast-CHPS are met and that they are consistent with state policy. The District, School Board, Board of Trustees, or appropriate school leadership must pass a board level resolution that mandates compliance with NECHPS.
- ii. Implement the EPA's Tools for Schools program or an equivalent indoor environmental management program for the new or renovated school. Provide a resolution signed by the school district requiring participation in Tools for Schools (or equivalent) for its schools.
- iii. Implement a school maintenance plan that includes an inventory of all equipment in the new or renovated school and its preventive maintenance needs.
- iv. Establish a written policy that all newly purchased equipment and appliances to be used in the school be ENERGY STAR compliant. Additionally, the policy must prohibit the purchase of low efficiency products, including incandescent task lights, halogen torchieres, and portable electrical resistance heaters.
- v. Adopt a no idling policy that applies to all school buses operating in the school district and all vehicles operating in the school grounds.
- vi. Use no CFC- or HCFC-based refrigerants in building Heating, Ventilating, Air Conditioning, & Refrigeration (HVAC&R) systems.

# Consideration of school district or school facility consolidation

Submit an analysis of the option of school consolidation and school district consolidation. The analysis must include acknowledgement and reconciliation of the utilization analysis of the LEA provided by Jacobs in the Statewide Assessment. Documentation shall include:

- Current school capacity and enrollment by school and grade and anticipated five year district growth by grade and school;
- ii. A map of the district showing the location of the site or sites under consideration and the location of existing school buildings in the district;
- iii. The attendance area to be served by the proposed school and the number of school-age children who reside within the attendance area and future demographic projections for the district and attendance area;
- iv. A map of the nearest adjacent district(s) showing their buildings and attendance areas;

- v. Other potential non-school buildings evaluated for conversion, include information on age, location, size, nearby community services and buildings, cost, and needed modernization;
- vi. Information regarding any school buildings abandoned by the district or converted to other use by the community in the last ten years including a map of their location in the district;
- vii. A comparative analysis of the potential impact of building sites on student transportation and local traffic conditions including traffic impact, public transportation opportunities, times of transit by school transportation, and cost of any changes that would be required to roads or the transportation system; and
- viii. Documentation must also be provided demonstrating that a licensed professional engineer has examined soil conditions for structural integrity and drainage in order to determine the suitability or lack thereof of possible sites and identified the existence of soil conditions which may increase site development costs.

# \_\_\_ Analysis of Historic Implications:

Describe whether the planning committee considered historical implications of existing facilities. If the project involves renovating or demolishing a building, please advise the Rhode Island Historical Preservation & Heritage Commission.

#### Contact Information:

Mr. Edward F. Sanderson, Executive Director
RI Historical Preservation & Heritage Commission
Old State House
150 Benefit Street
Providence, RI 02903-4134
(401) 222-4130 Fax (401) 222-2968

Email: esanderson@preservation.ri.gov Web site: <u>www.preservation.ri.gov</u>

# \_\_\_ Traffic/Transportation Impact Plan

Whenever possible, sites shall be located close to public transportation. In order to reduce automobile-related pollution and conserve energy, designs shall incorporate the use of public transportation and carpooling by minimizing parking, creating bike facilities, providing safe walking/biking access, and other appropriate design elements.

Additionally, applicants shall consider the proximity of other services in the community, such as supermarkets, commercial office buildings, grocery stores, day cares, cleaners, fitness centers, hair care, hardware, laundry, medical/dental services, senior care facilities, public parks, pharmacies, post offices, banks, libraries, and community centers.

## Preliminary energy analysis or modeling

Include an analysis of the energy use (electric and heating and/or cooling) of the facility for at least the last two years, a survey of the facility systems, and recommendations for improving energy efficiency. The use of Energy Star Portfolio Manager or ComCheck software systems to benchmark the facility against other buildings or the Rhode Island Building Energy Code is highly encouraged. The analysis must include reconciliation with the Energy Report Card provided by Jacobs in the Statewide Assessment.

Consideration of the effects of initial capital costs versus maintenance costs over the life of the building with the goal of reducing such maintenance costs. LEAs must include a narrative that addresses the strategies for training, operating, and maintaining the complex HVAC systems and controls.

# Energy Management Consulting Services Master Price Agreement (not required)

Please note that the School Building Authority has created a Master Price Agreement for Energy Management Consulting Services to expedite the procurement of services to comply with this requirements. LEAs are under no obligation to use vendors from the approved list.

http://www.purchasing.ri.gov/MPA/MPAawards.aspx?MPANumber=488 & MPADesc = MPA

\_\_\_ Feasibility of using renewable energy technologies Consideration of life-cycle costs estimates of all feasible energy systems to identify the system with the lowest life-cycle cost estimate

# 3. \_\_ Schematic Design Documents.

LEAs that use facility condition data from the Statewide Facilities Assessment must have professional architects and engineers develop Schematic Design documents and cost estimates. Schematic Design requirements are established by School Construction Regulations (1.09) and further guidance is provided in the Design Review Guidance document at RIDE's website.

# 4. \_\_ Design and Construction Cost Projection.

Cost projections must consider the effects of initial capital costs versus maintenance costs over the life of the building with the goal of reducing operation and maintenance costs. Districts must demonstrate the incorporation of life cycle cost analysis in the selection of mechanical systems, equipment, and materials.

The projection shall include a detailed breakdown of the costs associated with this project. This cost analysis should include not only the estimated costs of construction escalated for inflation at the anticipated bid date but also the project management and design fees. Refer to Section 1.07-1. Project management, design fees and other soft costs as a percentage of total construction costs shall not exceed 20% of the general construction costs, as determined by the SBA. Cost estimates must be reconciled with those provided by Jacobs in the Statewide Assessment.

Basic architectural services shall consist of the following phases, schematic design, design development, construction documents, bidding, and construction administration and include the following: architectural drawings, mechanical, electrical, plumbing, fire protection, structural, site development, basic environmental permitting, graphics, lighting design, acoustics, data and communication, educational consultants, any specialty consultants for laboratory, library/media center and kitchen space, code consultants, accessibility, and other services established by the SBA. Additional architectural services may include: geotechnical consultants, asbestos consulting, wetlands flagging, and other additional services as determined by the SBA.

Cost projections must be broken down between new space (i.e. addition) and space improvements (i.e. renovation). If a district is building an addition onto a school as well as conducting major renovations, the soft costs shall be pro-rated between the two aspects of the project. By separating the costs, the SBA is able to compare the cost of the new

construction versus renovation. The cost comparison should also include an evaluation of the potential for the use of historic tax credits for historic buildings that are being reused or surplused.

# 5. Financing Plan

Districts must consider the impact on the operating budget of implementing the project in such detail and format as required by the CESE, including but not limited to, an estimate of the costs of additional maintenance required of the district, the costs of additional instructional or support staff, additional utility costs, the costs of additional transportation, if any, and the estimated revenue, if any, from the sale or lease of any school facility decommissioned as a result of implementing the project.

Consider how financing this project will impact the district, including, the district's current level of indebtedness, and estimate potential increases in the local tax rate as a result of this project. Indicate how this project will be financed. If the project is to be supported by financing other than a general obligation bond, please indicate the alternative financial mechanism selected and a brief explanation as to why it is sound and cost efficient both in terms of the project itself and overall municipal fiscal policy and practice. Please keep the following items in mind when considering financing mechanisms:

- The financial mechanism must meet the test of prudent municipal financing policy, and shall have a term no longer than the useful life of the project.
- Interest costs are reimbursable only on general obligation bonds issued through the Rhode Island Health and Education, Building Corporation (RIHEBC).

# **Contact Information:**

Mr. Robert Donovan
Executive Director
RI Health and Education Building Corporation
170 Westminster Street
Providence, RI 02903

Phone: (401) 831-3770 Fax: (401) 421-3910

Email: rdonovan@rihebc.com

• The normal public review required for financial mechanisms other than bonds, e.g. formal appropriation of funds by a city or town council, will be required prior to reimbursement.

<u>Charter Public Schools Only</u>: Because charter schools do not require municipal support, please provide a description and defense of the funding mechanism. Indicate where the additional funds will come from to make the debt service payments. Note: if the charter school fundraises to pay for part of the capital campaign, this portion of the project cost will not be reimbursable under the Housing Aid program.

## 6. Site Purchase Plan (if necessary)

Districts must detail information about the location, cost, and acquisition plan for any new site. The site must meet all site standards included in these regulations. The district has sole responsibility for identifying and acquiring control of the site.

# 7. \_\_ Local Support

Districts must submit documentation of community support for the project, including City/Town Council and School Committee approvals. Please include a timeline for when the project will be submitted to voters for approval, if applicable.

# 8. Project Timeline

Submit detailed project schedule through completion including post occupancy energy commissioning and including SBA plan review submittals at 100% SD, 100% DD & 60% CD.

# 9. Commissioning Agent Services / Owners Project Manager / Clerk of the Works

The district shall procure the services of an independent engineering Commissioning Agent. Commissioning is the process of ensuring that systems are designed, installed, functionally tested, and capable of being operated and maintained to perform in conformity with the design intent of a project. The Commissioning Agent must be secured prior to the design phase of the project. The Commissioning Agent must be independent and procured separately from the contract for the district's construction services. The Commissioning Agent will be responsible, in part, for the local reporting required to implement state enforcement of the regulations for the project during the design, construction, and operational acceptance process to ensure compliance with the regulations during integrated design. During schematic design and design development, the Commissioning Agent will verify that all standards have been met through meetings with the design team and review of plans submitted by the design team. The Commissioning Agent will continue to monitor compliance with these regulations through the development of construction documents and through the construction process to ensure that all building systems, mechanical and lighting equipment, and all specifications are in compliance with regulations, included in and consistent with all plans, construction documents, and cost estimates. The Commissioning Agent will submit reports certifying compliance with all standards and regulations to the SBA and the district representative. The Commissioning Agent should work closely with the district's project manager, also referred to as clerk of the works.

The Commissioning Agent must:

- Bring the owner's needs and project requirements to the forefront at each phase of the project to ensure that the finished project will meet expectations;
- Improve the building's overall performance by optimizing energy-efficient design features and directly addressing issues like equipment performance testing and system integration; and
- Verify that building staff members are well-trained and possess the documentation they need to operate and maintain the building's systems and equipment after turnover.

## Commissioning Agent Master Price Agreement (not required)

The State of Rhode Island has created a Master Price Agreement for Commissioning Services to expedite the procurement process. LEAs are under no obligation to use vendors from the approved list.

http://www.purchasing.ri.gov/MPA/MPAawards.aspx?MPANumber=462 & MPADesc =

If the project is approved, a Memorandum of Agreement will be entered into with the district that sets forth the dollar authorization for the project (budget agreement), the scope of the project, and any contingencies that the district must comply with. Districts will be required to agree to any contingencies noted in the Memorandum of Agreement. A standing contingency is that districts will be expected to warn and conduct the vote for public approval for funding within six months of the Council's approval. If the voters do not approve the project within that time frame, the approval will expire and districts will have to start at Stage 1 again. The district will submit a signed copy of the Memorandum of Agreement to RIDE within 10 days of receipt. The Superintendent, or other chief administrative officer of the district, as well as all members of the School Committee must sign the agreement.

Due to statutory changes, the process for qualifying for state aid for school construction is now competitive and the CESE will approve projects based on need an urgency. In the event of funding limitations, the SBA at RIDE in coordination with the SBA Advisory Board will prioritize projects based on the priorities in statute.

# **End of STAGE II Checklist**

# **STAGE II SBA REVIEW**

## **REVIEW OPTIONS:**

**Approval:** The School Building Authority (SBA) provides a preliminary approval of the Application and advances a recommendation to the SBA Advisory Board and then to the Council on Elementary and Secondary Education.

**Further information needed:** The School Building Authority (SBA) returns the Application with requests to provide timely answers to questions, clarification of prescribed issues or request supplemental information. LEAs that proceed with any projects, without SBA approval, are not in conformance with Necessity for Construction regulations and will not be eligible for State aid.

**Disapproval:** The School Building Authority (SBA) returns the Application and notes the reasons for disapproval. The district may request a meeting with RIDE to review the Application and the decision.

# **APPENDICES**

# **APPENDIX A: Project Priorities:**

All projects will be considered in accordance with the priorities outlined in Rhode Island General Laws 16-105.3:

**Priority 1.** Projects to replace or renovate a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children, where no alternative exists.

# *Immediate Health and Safety*

- Elimination of exposure to hazardous materials
- Improvement of Indoor Air Quality problems that threaten the health of students and staff

## Code Compliance

- Repair to address a determination by a state or local building inspector of an impending school facility closure
- Modernization and/or renovation to come into compliance with Rhode Island State Building Code (RISBC) and all applicable codes, including but not limited to the fire, life/safety, electrical, and mechanical codes
- **Priority 2.** Projects needed to prevent loss of accreditation.
- **Priority 3.** Projects needed for the replacement, renovation or modernization of the HVAC system in any schoolhouse to increase energy conservation and decrease energy related costs in said schoolhouse.
- **Priority 4.** Projects needed to replace or add to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
- **Priority 5.** Projects needed to comply with mandatory instructional programs.

Please note that project prioritization rubric is subject to change by the SBA Advisory Board. The prioritization methodology for FY17 is provided for reference on the next page.



# PROPOSED PRIORITIZATION METHODOLOGY

DRAFT- March 2017

In accordance with statute (RIGL: 1-105-1-3) and regulations (RIDE SCR: 103-3), the School Building Authority uses a comprehensive approach to prioritize projects that are submitted for State aid eligibility. The prioritization of projects is not a single mechanism, but instead a multi-stage Necessity of School Construction application process, which culminates with projects prioritized using State level data collected from the Statewide School Facilities Assessment. The Prioritization Methodology presented here is intended to prioritize school projects submitted for Necessity approval.

Facility
Condition Index
Building Repair Cost
Replacement Cost

# 35 POINTS

# **Facility Condition Index**

An industry standard approach to determining the overall health of a facility is called the Facility Condition Index (FCI). This value is derived by dividing the identified cost to repair a facility by the theoretical cost to replace it. In this case, the assessment is capturing the current deficiencies and the building components that may require replacement in the next five years to account for the cost to get a facility to a "like new" condition.

# Weighted Priority Score

(Priority 1) x 5+ (Priority 2) x 4+ (Priority 3) x 3 + (Priority 4) x 2 + (Priority 5) x 1

# 35 POINTS

# **Weighted Priority Score**

Weighted priority is a factor derived by weighting higher priority repairs greater, due to their impact to the operation of the facility. Conditions that affect the building's ability to keep occupants warm, safe, and dry are weighted more than such things as aesthetics. Deficiencies are ranked according to five priority levels, with Priority 1 items being the most critical to address.

- Priority 1 Mission Critical Concerns
- Priority 2 Indirect Impact to Educational Mission
- Priority 3 Short-Term Conditions
- Priority 4 Long-Term Requirements
- Priority 5 Enhancements

# Utilization of School Buildings

Enrollment Capacity

# 15 POINTS

Wealth Index
Housing Aid Ratio x 100

15 POINTS

# **Utilization of School Buildings**

Utilization is determined by dividing enrollment by the capacity. The capacity of a school reflects how many students the school's physical facility can serve effectively. Utilization calculations are based on LEA Reported Capacity.

#### **Wealth Index**

The Wealth Index is a scoring metric used to establish priority based on wealth for Local Education Agencies that may rely more on state funding according to the housing aid funding approach. Wealth Index is based on the district's housing aid ratio. The score is generated by multiplying the housing aid ratio by 100. For charter schools, an average share ratio based on the sending districts was used. Wealth Index applies a priority to disadvantaged districts that require more aid.

## **APPENDIX B**

#### INITIAL COMPLIANCE CERTIFICATION

This Initial Compliance Certification ("ICC") must be completed by all Applicants, as defined by RIDE School Construction Regulation (SCR) 1.02, who intend to submit a Necessity of School Construction application to the Rhode Island School Building Authority (the "Authority"), as defined by to R.I.G.L. 16-105.2. The Authority will not consider a District, as defined by RIDE School Construction Regulation (SCR) 1.01, to be eligible for School Housing Aid or School Building Authority Capital Funding until after the District has properly submitted an ICC and received Council on Elementary and Secondary Education approval.

- 1. The District hereby acknowledges and agrees that in order to qualify for any funding from the Authority, the District must comply with R.I.G.L. 16-7-35 through 16-7-45 and RIDE SCR 1.00 *et seq*. which require the Authority's collaboration and approval at each step of the Necessity of School Construction approval process and further acknowledges and agrees that any actions taken, costs incurred or agreements entered into for the repair, renovation or construction of school facilities without the explicit prior written approval of the Authority shall not be eligible for state aid.
- 2. The District hereby certifies that it will study and consider all available options for remedying the deficiencies identified through the Necessity process, including, to the extent applicable, regionalization or tuition agreements with adjacent school districts, district assignment policies within the school district, rental or acquisition and any necessary rehabilitation or usage modification of any existing building which could be made available for school use.
- 3. The District hereby acknowledges and agrees that, before the Council on Elementary and Secondary Education can grant final approval of a Project, the District must submit documentation of community support, including City/Town Council and School Committee approvals, vote to authorize and appropriate the full amount of funding for the Proposed Project that is necessary to meet the total project budget, as agreed to by the Authority and as described in RIDE SCR 1.00.
- 4. The District hereby acknowledges and agrees that, in connection with a Proposed Project or an Approved Project, it shall use any standard forms (certifications, statements, affidavits, and agreements) established or developed by the Authority.
- 5. The District hereby acknowledges and agrees that it will notify RIDE in writing six months prior to the sale, lease, demolition or other removal from service of any school facility in the district's jurisdiction, or portion thereof. Where a building that has received school construction payments from RIDE for a building that has not remained in service for 50 years, RIDE may recapture at its discretion a portion of the State aid.
- 6. The District shall undertake a Feasibility Study to investigate potential options and solutions, including cost estimates, to the School's deficiencies and issues, as identified through the Necessity of School Construction process, or as otherwise determined by the Authority. The District hereby acknowledges

and agrees that, as part of a Feasibility Study where a new school option is among the options that may be studied, the District shall study potential sites for the Proposed Project and hereby acknowledges and agrees that it shall base its site selection for a Proposed or Approved Project on, among other things, cost and environmental factors, including an awareness of soil conditions and their probable effect on foundation and site development costs, transportation effects, dislocation of site occupants, and relationship to other community facilities in accordance with the School Construction Regulations.

- 7. The District hereby acknowledges and agrees that any Approved Project for the construction of a new facility, or for the addition to or renovation of an existing school facility, shall have a useful life of fifty (50) years as a public school in the District as required by RIDE SCR 1.00.
- 8. The District hereby acknowledges and agrees that it shall procure the necessary professionals to conduct any necessary assessments, design and engineer Approved Projects, and manage construction. The necessary professional must monitor compliance with the regulations through the design and construction process to ensure that all building systems are in compliance with regulations and are consistent with all plans, construction documents, and cost estimates as required by RIDE SCR 1.00.
- 9. The District hereby certifies that it has specifically read the provisions of RIDE School Construction Regulations 1.00 and certifies that it has met or will meet each of the requirements described therein and further acknowledges and agrees that the District's failure to comply with each requirement, as determined by the Authority, may be grounds for disapproval of the District's application.

District Name:	
	cation, I hereby certify that I have read and understand the terms of this her certify on behalf of the Applicant that each of the above statements
By: Title: Superintendent of Schools	
Date:	
	cation, I hereby certify that I have read and understand the terms of this her certify on behalf of the Applicant that each of the above statements
By: Title: Chair of the School Committee Date:	

# <u>APPENDIX C – School Building Committee Letter Template</u>

# [PLEASE PRINT ON CITY, TOWN, OR DISTRICT LETTERHEAD]

Date

Joseph da Silva, Ph.D., NCARB, REFP School Construction Coordinator School Building Authority Rhode Island Department of Education 255 Westminster Street Providence, RI 02903

Dear Dr. da Silva:

In accordance with RIDE School Construction Regulations 1.00, attached for your review and approval is the membership of the School Building Committee for \_\_\_\_\_\_ School District located in the (City, Town or Regional School District).

The Committee was formed in accordance with the provisions of all applicable statutes, local charters, by-laws and agreements of the (City, Town or Regional School District). Committee Members include the following:

(Please provide name, title, address and phone number of each member, and indicate who the Chair of the School Building Committee is. Also, please indicate whether the member has voting power. Some categories may have more than one name. All members must be included.)

Designation  Committee Role –  Alignment w/ RIDE  1.08-1 (2)	Name	Background	Voting Member
Superintendent of Schools			
Member of School Committee			
Local official responsible for building maintenance			
Representative of the office or body authorized by law to construct school buildings in the municipality			
School principal			
Member who has knowledge of the educational mission and function of the facility			
Local budget official or member of the local finance committee			
Member of the community with architectural, engineering and/or construction experience			

After approval of this committee by the Authority, the (City, Town or Regional School District) will notify the Authority in writing within 20 calendar days of any changes to the membership or the duties of said committee.
Sincerely,
Authorized Signature for the District, City, or Town

#### **APPENDIX D - SCHOOL SITING CONSIDERATIONS**

# RIDE 1.05: SITE STANDARDS 1.05-1 Site Ownership

The applicant shall own the site of an Approved Project or be in the process of acquiring or have a reasonable expectation of owning the site by the end of the Architectural Feasibility Study (refer to Section 1.08-2). If the applicant is acquiring a new parcel of land for the project, the applicant shall provide in its Architectural Feasibility Study to RIDE a completed, signed, and sealed description of the plot plan of the land to be acquired showing:

- Topographical and contour lines
- Adjacent properties indicating current land uses, access roads, deed restrictions, easements, protective covenants, right of ways, and environmentally sensitive areas such as waterways and wetlands.
- The acreage and dimensions of the tract proposed for acquisition
- Anticipated footprint of the proposed school

#### 1.05-2 Responsible School Site Selection

Protecting student health is the most important issue during site selection. These requirements are intended to eliminate sites containing pollutants known to be hazardous to student and staff health. A variety of factors, from hazardous materials in the soil to airborne pollutants from nearby sources, will be considered in the site review process.

- 1. Project sites must be at sufficient distances from facilities that might reasonably be anticipated to emit hazardous air emissions or to handle hazardous or acutely hazardous materials, substances, or waste. Applicants must demonstrate that the health and safety of students and staff are not jeopardized by the location of the site.
- 2. Project sites must have a minimum separation of 500 feet from 50-133kV power-lines, 750 feet from 220-230kV power-lines, and 1,500 feet from 500-550kV power-lines; and 1,500 feet from railroad tracks, hazardous pipelines, and major highways.
- 3. Project sites may not be located in an area with moderate or high radon potential, or in an EPA radon zone, unless the school building project plan incorporates a radon mitigation strategy.
- 4. Sites shall be free from noxious pollution or contamination, and shall be selected to avoid flood plain, wetlands or other environmentally sensitive areas. A new school site must not be located within a one-mile radius of an active landfill. A landfill, as defined by the RI Department of Environmental Management's Hazardous Waste regulations, shall mean a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a land treatment facility, a surface impoundment, an injection well, a waste pile, or a corrective action management unit.

# NORTHEAST COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (NECHPS) PROTOCOL SS 1.0 Site Selection

State and federal laws and regulations for school siting and environmental impact studies were created to prevent schools from being constructed on sites containing pollutants known to be hazardous to student and staff health. A variety of factors, from hazardous materials in the soil to airborne pollutants from nearby sources are included in the site review process. At existing facilities, an assessment should be undertaken to determine the environmental and health problems with the facilities prior to renovations.

# **New Schools Requirements.**

Complete a Phase I (and Phase II if necessary based on Phase I assessment) Environmental Site Assessment in accordance with ASTM E1527-05. This must include:

- Identification of facilities within ¼ mile that might reasonably be anticipated to emit hazardous air emissions, or handle hazardous or acutely hazardous material, substances or waste. A determination shall be made (following ASTM 1527-05) that such facilities will not adversely affect the health of students, staff or teachers.
- A risk assessment and implementation of appropriate mitigation measures, or the establishment of appropriate "buffer zones", to ensure that the proposed school site would not expose school occupants to significant health or safety risks from rail lines, hazardous material pipelines, high power transmission lines, toxic air emissions from stationary sources, or other sources of pollution including those identified under ASTM 1527-05.
- Written findings verifying that the site is not currently or formerly a hazardous, acutely hazardous substance release, or solid waste disposal site or, if so, that the wastes have been removed in a manner that meets the referenced standard. Also, the written findings must state that the site does not contain pipelines, which carry hazardous wastes or substances other than a natural gas supply line to the school or neighborhood. If hazardous air emissions are identified, the written findings must state that the health risks do not, and will not, constitute an actual or potential danger of public health of students or staff. If corrective measures of chronic or accidental hazardous air emissions are required under an existing order by another jurisdiction, the governing board shall make a finding that the emissions have been mitigated prior to occupancy of the school.
- Identification of train tracks, freeways or traffic corridors within 500 feet of the site and analyses that neither short-term nor long-term exposure to air pollutants poses significant health risks to students.
- Site the school with at least the following distances from the edge of respective power easements above ground; 100 feet for 50-133 kV lines, 150 feet for 220-230 kV lines, and 350 feet for 500-550 kV lines.
- The site shall be self-draining, including detention ponds or other engineered systems (lakes) to control and direct water, and free from depressions in which water may stand and be allowed to stagnate. The site shall be kept free from refuse, weed overgrowth, and other hazards. Livestock or poultry shall be located more than fifty (50) feet from food service areas, offices, or classrooms except those offices and classrooms associated with animal husbandry activities.
- The site shall not be located near an above-ground water or fuel storage tank or within 1500 feet of
  the easement of an above ground or underground pipeline that can pose a safety hazard as
  determined by a risk analysis study, conducted by a competent professional, which may include
  certification from a local public utility commission.
- If the site is located in an agricultural area, identify drift problems throughout the year from highly toxic and volatile pesticides. Pesticides under concern are listed as "Restricted Use Products" by the US

- EPA. If highly toxic and volatile pesticides are identified and not mitigated, the school will not meet this prerequisite.
- If the school drinking water source is an on-site private well, the well water must be tested by the local health department or authority having jurisdiction to ensure the water is free of harmful contaminants prior to occupancy. The local jurisdiction may require further testing during occupancy.

# **Major Renovations Requirements.**

- All Major Renovations must identify facilities within ¼ mile, which might reasonably be anticipated to
  emit hazardous air emissions, or handle hazardous or acutely hazardous material, substances or waste.
  A determination shall be made (following ASTM 1527-05) that such facilities will not adversely affect
  the health of students, staff or teachers.
- Refer to U.S. EPA's School Siting Guidelines for additional guidance on identification of nearby facilities
  that may impact the school site, conducting Phase I and Phase II site assessments, evaluating potential
  impacts from nearby sources of air pollution and integrating public involvement into the school siting
  process
- Renovation projects shall complete the latest version of the FIT (Facility Inspection Tool) developed by the California Office of Public School Construction (OPSC).
- Renovation projects shall complete the Environmental Review Process as they apply to existing schools, as outlined in School Siting Guidelines published by the US EPA, Chapters 3 through 6.

Additionally, the NECHPS protocol has several credits relating to site selection and design, including: Environmentally Sensitive Land / Preserve Greenspace & Parklands; Minimize Site Disturbance; Construction Site Runoff Control / Sedimentation; Post Construction Stormwater Management; Central Location; Located Near Public Transportation; Joint-Use of Facilities; Human Powered Transportation; Reduce Heat Islands — Landscaping / Sites; Reduce Heat Islands — Cool Roofs / Green Walls; Avoid Light Pollution and Unnecessary Lighting; School Gardens; Use Locally Native Plants for Landscape; and Site and Building Best Practice.

#### APPENDIX E - SAMPLE SCHOOL CAPACITY CALCULATION GUIDELINES

The following guidance provides a high level approach to calculating capacities at schools by grade level. For masterplanning purposes, a more in-depth analysis is required, which includes classroom counts and incorporates the school's educational program requirements. LEAs must reconcile capacity calculations with those provided in the statewide assessment conducted by Jacobs.

# **Elementary School Capacity:**

- Average class size 24\*
- Average special education class size 10
- 100% Utilization
- Uncounted Spaces
  - 1. Art
  - 2. Computer Lab
  - 3. Health
  - 4. Gym
  - 5. Fitness
  - 6. Special education tutorial & resource

# Middle School Capacity:

- Average class size 24\*
- Average special education class size 10
- 85% Utilization

# **High School Capacity:**

- Average class size 25\*
- Average special education class size 10
- 85% Utilization

# **Capacity Example Table:**

Schools	Enroll-FY	Capacity	<b>Capacity Difference</b>
Totals			

<sup>\*-</sup> Denotes maximum.